

## Chapter 6 – Applications of Trigonometry

1. Illustrate which properties hold for vector addition and scalar multiplication
2. Model using the coordinate plane, vector addition, and scalar multiplication
3. Convert between Cartesian and polar representations of complex numbers
4. Illustrate which properties hold for addition and multiplication of complex numbers

2. Use vector addition, scalar multiplication, and dot product of vectors to solve problems

7. Analyze functions given either in parametric or polar form

1. Use polar coordinates to specify geometrical objects
2. Use trigonometric methods to solve problems of geometry
3. Interpret geometrically the operations of vector addition, scalar multiplication, and the dot product of vectors
4. Use vector models to solve and interpret problems of geometrical and practical interest

3. Calculate and interpret the magnitude of a vector in two- and three-dimensional space

[illegible]

## Chapter 7 – Matrices and Systems of Equations

### **Standard I Number and Operations**

5. Illustrate which properties hold for addition and multiplication of matrices
6. Perform basic operations (sums, products, and row reductions) on matrices using paper and pencil calculations for simple cases and technology for more complicated cases

### **Standard II Algebra**

3. Decompose rational functions into partial fractions (involving linear, repeated, and irreducible quadratic factors)
4. Solve systems of linear equations with a variety of matrix techniques (Cramer's Rule, matrix inverse, and row reduction), using technology for more complex systems

### **Standard III Geometry**

5. Represent the solution of a system of linear equations as the intersection of lines (in 2-space) and planes (in 3-space)

<b>Student Name</b>	<b>I5</b>	<b>I6</b>	<b>II3</b>	<b>II4</b>	<b>III5</b>
Chang, Raymond					
Chen, Maggie					
Cho, Chris					
Germain, Chris					
Hou, Kevin					
Huang, Karissa					
Jackson, Sarah					
Kim, Dong Beom					
Lee, Jordan					
Lee, Patrick					
Li, Emily					
Ma, Kevin					
Sun, Claudia					
Tong, Lexing					
Yao, David					
Yee, Bubba					

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<b>Student Name</b>	<b>I5</b>	<b>I6</b>	<b>II3</b>	<b>II4</b>	<b>III5</b>
Chen, David					
Chen, Howard					
Choi, Chloe					
Kim, MJ					
Kung, Victor					
Lee, Isabelle					
Lin, Faline					
Ni, Dan					
Ni, Donna					
Song, Julia					
Sun, Cynthia					
Wang, Connie					
Wu, Frank					
Wu, Whitney					
Yu, Helen					
Zhang, Jean					